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ly know, whether that *Sally* be more easie to discover, than the *shadows* of the *satellites*, which *Campani* believes, *Auzout* hath not seen; and whether he be assured, that those obscure parts, which he there distinguishes, do not change: for if they should not change, then *Jupiter* would not turn about his *Axix*, which yet, he saith, it doth, according to the *Observation* made by Mr. *Hook*, May 9 1664. inserted in the first papers of these *Transactions*. The full Discovery of which particular also he makes to be a part of *Cassini's* and *Campani's* work, seeing that they so distinctly see the inequalities in the *Belts*, and see also sometimes other *spots* besides the *shadows* of the *Satellites*: where he exhorts all the Curious, that have the conveniency of observing, to endeavor the discovery of a matter of that importance, which would prove one of the greatest *Analogies* for the *Earth's Motion*.

### *An Account of Mr. Richard Lower's newly published Vindication of Doctor Willis's Diatriba de Febribus.*

The Title of this Curious piece, is, *Diatribæ Thomæ Willisii Med. Doct. & Profess. Oxon. De Febribus Vindicatio, Autore Richardo Lower, &c.* In it are occasionally discussed many considerable Medical and Anatomical inquiries, as, Whether a Fever does consist in an Effervescence of Blood? And if so, of what kind? Whether there be a *Nervous* and *Nutritious* Juice? Whether the office of sanguification belongs to the Blood it self, existing *before* those *Viscera* (at least) that are commonly esteemed to be the Organs of sanguification? How *Nutrition* is performed, and the nourishing substance assimilated? Whether the Blood affords both the Matter for the structure of the Body, and such parts also, as are fit for the nourishment of the same? Whether the Pulse of the Heart ceasing, there remains yet a certain Motion in the blood, arguing, that *Pulse* and *Life* do ultimately rest in the *Blood*? Whether the Umbilical Vessels convey the blood of the Mother to the Child, or whether the *Fœtus* be for the most part form'd and

acted by the circulating blood, before the existence of the *Umbilical Vessels*, or before the connecting of the *Fœtus* with the *Uterus*? A new Experiment to prove, that the *Chyle* is not transmuted into *Blood* by the *Liver*. A discourse of the Nature of the *Blood*, and what difference there is between the *Venal* and *Arterial* blood, and for what Uses both the one and the other are particularly designed. Where it is considered, what *Life* is, and whence the *Soul* of *Brutes*, and its subsistence, and operations do depend. It is also inquired into, what the uses of the *Lungs* are in *hot* Animals? And many other such material disquisitions are to be found in this small, but very Ingenious and Learned Treatise.

*A Note touching a Relation, inserted in the last Transactions.*

In the Experiment of killing *Rattle-Snakes*, mentioned in the last of the precedent Papers (wherein, by a mistake, these words, *The way*, were put for *A way*, or *An Experiment*) it should have been added, that the Gentleman there mention'd, did affirm, that, in those places, where the *Wild Penny-Royal* or *Dittany* grows, no *Rattle-Snakes* are observed to come.

*Errata.*

P Ag. 59. line 11. read, *bignesses*, l. 20. r. *endure*, for, *resist*. l. 30. r. *those*, for, *these*. l. 31. r. *Plain*, for, *place*.

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L O N D O N,

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